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AF/2643  
AMENDMENT UNDER 37 C.F.R. § 1.116  
EXPEDITED PROCEDURE  
GROUP 2643  
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q64874

Yoshimi KUDO, et al.

**RECEIVED**

DEC 13 2004

Appln. No.: 09/895,197

Group Art Unit: 2643 Technology Center 2600

Confirmation No.: 8787

Examiner: LE, HUYEN D.

Filed: July 02, 2001

For: DIAPHRAGM FOR SPEAKERS

AMENDMENT UNDER 37 C.F.R. § 1.116

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated September 8, 2004, please amend the above-identified application as follows on the accompanying pages.

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**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A diaphragm for a speaker comprising:  
a diaphragm body made of metal; and  
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a first part of the diaphragm body; and  
wherein the auxiliary diaphragm is formed to cover only the center portion of the diaphragm body; and  
wherein the diaphragm body includes a second part in an area except for the center portion, where the second part is not covered with the auxiliary diaphragm.
2. (canceled).
3. (previously presented): A diaphragm for a speaker comprising:  
a diaphragm body made of metal; and  
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;  
wherein a plurality of portions recessed toward the center of the diaphragm body are formed at a plurality of locations along the outer periphery of the auxiliary diaphragm.

4. (original): The diaphragm according to claim 3, wherein the plurality of portions recessed is odd in number, and formed at regular angular intervals along the outer periphery of the auxiliary diaphragm.

5. (previously presented): A diaphragm for a speaker comprising:  
a diaphragm body made of metal; and  
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;  
wherein the outer configuration and the area of the auxiliary diaphragm are set based on the high limit frequency of the diaphragm to which the auxiliary diaphragm is bonded.

6. (previously presented): A diaphragm for a speaker comprising:  
a diaphragm body made of metal; and  
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;  
wherein a through hole for inserting a connecting cable is formed at a portion where the diaphragm body and the auxiliary diaphragm are overlapped, whereby a feeder portion of the diaphragm for inserting the connecting cable to connect with the voice coil can be formed of paper of the auxiliary diaphragm.

7. (previously presented): A diaphragm for a speaker comprising:  
a diaphragm body made of metal; and  
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;

wherein a cylindrical portion to which a voice coil bobbin of a speaker is connected is integrally formed at the center of the auxiliary diaphragm.

8. (original): The diaphragm according to claim 1, wherein the auxiliary diaphragm is formed by manufacturing of paper.

Claims 9-17 (canceled).